#13

OIPE

RAW SEQUENCE LISTING DATE: 10/30/2002
PATENT APPLICATION: **US/10/001,221A** TIME: 12:20:11

Input Set : **A:\10709-14 sequence listing.ST25.txt**
Output Set: **N:\CRF4\10292002\J001221A.raw**


```
 3 <110> APPLICANT: Schall, Thomas J. Talbot, Dale Berkowitz, Robert
 4       Zheng, Wei Premack, Brett Howard, Maureen
 6 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INDUCING AN IMMUNE RESPONSE
 8 <130> FILE REFERENCE: 10709/14
10 <140> CURRENT APPLICATION NUMBER: 10/001,221A
12 <141> CURRENT FILING DATE: 2001-10-30
14 <150> PRIOR APPLICATION NUMBER: 09/834,814
16 <151> PRIOR FILING DATE: 2001-04-20
18 <160> NUMBER OF SEQ ID NOS: 7
20 <170> SOFTWARE: PatentIn version 3.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 76
24 <212> TYPE: PRT
25 <213> ORGANISM: Homo sapiens
27 <400> SEQUENCE: 1
29 Gln Pro Asp Ser Val Ser Ile Pro Ile Thr Cys Cys Phe Asn Val Ile
30 1               5                  10                  15
33 Asn Arg Lys Ile Pro Ile Gln Arg Leu Glu Ser Tyr Thr Arg Ile Thr
34             20                  25                  30
37 Asn Ile Gln Cys Pro Lys Glu Ala Val Ile Phe Lys Thr Gln Arg Gly
38         35                  40                  45
41 Lys Glu Val Cys Ala Asp Pro Lys Glu Arg Trp Val Arg Asp Ser Met
42     50                  55                  60
45 Lys His Leu Asp Gln Ile Phe Gln Asn Leu Lys Pro
46 65                  70                  75
49 <210> SEQ ID NO: 2
50 <211> LENGTH: 95
51 <212> TYPE: PRT
52 <213> ORGANISM: Homo sapiens
54 <400> SEQUENCE: 2
55 Gly Leu Ile Gln Glu Met Glu Lys Glu Asp Arg Arg Tyr Asn Pro Pro
56 1               5                  10                  15
59 Ile Ile His Gln Gly Phe Gln Asp Thr Ser Ser Asp Cys Cys Phe Ser
60             20                  25                  30
63 Tyr Ala Thr Gln Ile Pro Cys Lys Arg Phe Ile Tyr Tyr Phe Pro Thr
64         35                  40                  45
67 Ser Gly Gly Cys Ile Lys Pro Gly Ile Ile Phe Ile Ser Arg Arg Gly
68     50                  55                  60
71 Thr Gln Val Cys Ala Asp Pro Ser Asp Arg Arg Val Gln Arg Cys Leu
72 65                  70                  75                  80
75 Ser Thr Leu Lys Gln Gly Pro Arg Ser Gly Asn Lys Val Ile Ala
76                 85                  90                  95
79 <210> SEQ ID NO: 3
```

RAW SEQUENCE LISTING DATE: 10/30/2002
PATENT APPLICATION: **US/10/001,221A** TIME: 12:20:11

Input Set : **A:\10709-14 sequence listing.ST25.txt**
Output Set: **N:\CRF4\10292002\J001221A.raw**

<211> LENGTH: 68
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 3

```
Gly Pro Tyr Gly Ala Asn Val Glu Asp Ser Ile Cys Cys Gln Asp Tyr
1               5                  10                  15
Ile Arg His Pro Leu Pro Ser Arg Leu Val Lys Glu Phe Phe Trp Thr
            20                  25                  30
Ser Lys Ser Cys Arg Lys Pro Gly Val Val Leu Ile Thr Val Lys Asn
        35                  40                  45
Arg Asp Ile Cys Ala Asp Pro Arg Gln Val Trp Val Lys Lys Leu Leu
    50                  55                  60
His Lys Leu Ser
65
```

<210> SEQ ID NO: 4
<211> LENGTH: 94
<212> TYPE: PRT
<213> ORGANISM: Artificial sequence
<220> FEATURE:
<223> OTHER INFORMATION: Chimeric molecule
<400> SEQUENCE: 4

```
Gly Leu Ile Gln Glu Met Glu Lys Glu Asp Arg Arg Tyr Asn Pro Pro
1               5                  10                  15
Ile Ile His Gln Gly Phe Gln Asp Thr Ser Ser Asp Cys Cys Phe Asn
            20                  25                  30
Val Ile Asn Arg Lys Ile Pro Ile Gln Arg Leu Glu Ser Tyr Thr Arg
        35                  40                  45
Ile Thr Asn Ile Gln Cys Pro Lys Glu Ala Val Ile Phe Lys Thr Gln
    50                  55                  60
Arg Gly Lys Glu Val Cys Ala Asp Pro Lys Glu Arg Trp Val Arg Asp
65                  70                  75                  80
Ser Met Lys His Leu Asp Gln Ile Phe Gln Asn Leu Lys Pro
                85                  90
```

<210> SEQ ID NO: 5
<211> LENGTH: 77
<212> TYPE: PRT
<213> ORGANISM: Artificial sequence
<220> FEATURE:
<223> OTHER INFORMATION: Chimeric molecule
<400> SEQUENCE: 5

```
Gln Pro Asp Ser Val Ser Ile Pro Ile Thr Cys Cys Phe Ser Tyr Ala
1               5                  10                  15
Thr Gln Ile Pro Cys Lys Arg Phe Ile Tyr Tyr Phe Pro Thr Ser Gly
            20                  25                  30
Gly Cys Ile Lys Pro Gly Ile Ile Phe Ile Ser Arg Arg Gly Thr Gln
        35                  40                  45
Val Cys Ala Asp Pro Ser Asp Arg Arg Val Gln Arg Cys Leu Ser Thr
    50                  55                  60
Leu Lys Gln Gly Pro Arg Ser Gly Asn Lys Val Ile Ala
```

RAW SEQUENCE LISTING DATE: 10/30/2002
PATENT APPLICATION: US/10/001,221A TIME: 12:20:11

Input Set : A:\10709-14 sequence listing.ST25.txt
Output Set: N:\CRF4\10292002\J001221A.raw

164 65 70 75
167 <210> SEQ ID NO: 6
168 <211> LENGTH: 78
169 <212> TYPE: PRT
170 <213> ORGANISM: Artificial sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: Chimeric molecule
175 <400> SEQUENCE: 6
176 Gly Pro Tyr Gly Ala Asn Val Glu Asp Ser Ile Cys Cys Phe Asn Val
177 1 5 10 15
180 Ile Asn Arg Lys Ile Pro Ile Gln Arg Leu Glu Ser Tyr Thr Arg Ile
181 20 25 30
184 Thr Asn Ile Gln Cys Pro Lys Glu Ala Val Ile Phe Lys Lys Thr Gln
185 35 40 45
188 Arg Gly Lys Glu Val Cys Ala Asp Pro Lys Glu Arg Trp Val Arg Asp
189 50 55 60
192 Ser Met Lys His Leu Asp Gln Ile Phe Gln Asn Leu Lys Pro
193 65 70 75
196 <210> SEQ ID NO: 7
197 <211> LENGTH: 67
198 <212> TYPE: PRT
199 <213> ORGANISM: Artificial sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Chimeric molecule
204 <400> SEQUENCE: 7
205 Gln Pro Asp Ser Val Ser Ile Pro Ile Thr Cys Cys Gln Asp Tyr Ile
206 1 5 10 15
209 Arg His Pro Leu Pro Ser Arg Leu Val Lys Glu Phe Phe Trp Thr Ser
210 20 25 30
213 Lys Ser Cys Arg Lys Pro Gly Val Val Leu Ile Thr Val Lys Asn Arg
214 35 40 45
217 Asp Ile Cys Ala Asp Pro Arg Gln Val Trp Val Lys Lys Leu Leu His
218 50 55 60
221 Lys Leu Ser
222 65

VERIFICATION SUMMARY DATE: 10/30/2002
PATENT APPLICATION: **US/10/001,221A** TIME: 12:20:12

Input Set : **A:\10709-14 sequence listing.ST25.txt**
Output Set: **N:\CRF4\10292002\J001221A.raw**